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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,856	03/22/2006	Hiroshi Ishibuchi	SAA-008	9237
32628 7590 10/13/2009 KANESAKA BERNER AND PARTNERS LLP 1700 DIAGONAL RD			EXAMINER	
			NGUYEN, PHONG H	
SUITE 310 ALEXANDRIA	ANDRIA, VA 22314-2848		ART UNIT	PAPER NUMBER
			3724	
			MAIL DATE	DELIVERY MODE
			10/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/572,856	ISHIBUCHI ET AL.				
		Examiner	Art Unit				
		PHONG H. NGUYEN	3724				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with the	correspondence address				
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR REPERIOD FOR REPERIOR IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute to reply within the set or extended period for reply will, by statute to reply within the set or extended period for reply will, by statuted patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be to divide apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)[\	Responsive to communication(s) filed on <u>09</u>	lune 2009					
•	This action is FINAL . 2b) ☐ This action is non-final.						
3)	, 						
٥/ا	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	Claim(s) 28-30 and 35-44 is/are pending in the	ne application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>28-30 and 35-44</u> is/are rejected.						
· ·	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and	or election requirement.					
Applicati	on Papers						
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>22 March 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
10/2		<i>i</i> — <i>i</i> — <i>i</i> — <i>i</i>	•				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 39 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear how the absolute values of the first torque component and the second torque component are smaller than absolute values of torque amounts necessary for acceleration AND deceleration of the cylinders. The absolute values of the first torque component and the second torque component are smaller than absolute values of torque amounts necessary for acceleration OR deceleration of the cylinders but not both.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 28-30 and 35-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hideo (JP2002-284,430) in view of Ishibuchi (JP2004-291210).

Regarding claim 28, Hideo teaches a method of cutting off a web having a basic

weight and being fed at a web feeding speed between a preceding knife cylinder 2 that

carries on a peripheral surface thereof a preceding knife 8 and a following knife cylinder

3 that carries on a peripheral surface thereof a following knife 9, said method comprising:

determining an amount of cutting torque (Txa+Txb) necessary for the knives to

cut off the web, based on the basic weight and the feeding speed of the web (it is to be

noted the web has a certain weight and moves with a certain speed and is cut by the

knives. Therefore, a specific a mount of torque is generated based on the web's weight

and speed.); and

while the web is being cut, driving the following knife and the preceding knife

respectively with a first torque component Txa and a second torque component Txb of

the cutting torque in the direction in which the preceding knife and the following knife

are pressed against each other;

wherein the first torque component Txa and the second torque component Txb

have opposite signs (the knife cylinders press against each other; therefore, the torque

component have opposite signs).

See Fig. 1.

Hideo does not teach varying the first torque component and the second torque

component during a cutting process.

Ishibuchi teaches varying torque during a cutting process for making proper cuts

on a web. See claim 1. It is to be noted that change in speed causes change in torque.

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Therefore, it would have been obvious to one skilled in the art at the time the invention was made to vary the first torque component and the second torque component during a cutting process as taught by Ishibuchi for making proper cuts on the web.

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Regarding claims 29, 30 and 42, the modified method of cutting off a web of Hideo does not teach a specific torque pattern. At the time the invention was made, finding a specific torque pattern for cutting a web is merely to do repeated experiments. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to do repeated experiments to obtain the claimed torque pattern in claims 29, 30 and 42.

Regarding claim 35, since the following knife and the preceding knife rotates with different speed as taught by Ishibuchi, the first and second torque component have different absolute values.

Regarding claim 36, since the following knife and the preceding knife rotates with the same speed, the first and second torque component have the same absolute values.

Regarding claim 37, with or without the web (the web is not being cut), at the contact point of the knives, the first torque component and the second torque component having the same signs because the force at the contact point points to the same direction.

Regarding claim 38, Hideo teaches the knives running without contacting each other in Fig. 1. In order for the knives running, a torque must apply on the knives.

Regarding claim 39, the absolute values of the first torque component and the second torque component are smaller than absolute values of torque amounts necessary for acceleration since a greater force need to be applied to the cylinders for acceleration.

Regarding claim 40, see Fig. 2 in Hideo.

Regarding claim 41, Hideo teaches the second torque component being given based on the feeding speed and the web's length.

Regarding claim 43, when the speed changes, the torque change, and thus the torque pattern changes.

Regarding claim 44, Hideo teaches the cylinders rotating with the same rotational speed; therefore, the torque pattern of the first torque component and the second torque component are identical.

Response to Arguments

5. Applicant's arguments with respect to claim 28 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHONG H. NGUYEN whose telephone number is (571)272-4510. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Phong H Nguyen/ Examiner, Art Unit 3724 October 11, 2009